

INTERNATIONAL SEARCH REPORT

onal Application No

IL2005/000043

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07F9/6584 C07F9/113 A61K31/661

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07F A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	LORENZ, PETER ET AL: "Synthesis of N-Lost derivatives. II. Reaction of N,N-bis(2-chloroethyl)phosphoramidic dichloride with 1-aminopropane-2,3-diol" ARCHIV DER PHARMAZIE (WEINHEIM, GERMANY) , 319(11), 1023-7 CODEN: ARPMAS; ISSN: 0365-6233, 1986, XP008045159 examples 9-14	1-14,21, 22
X	US 5 220 043 A (DONG ET AL) 15 June 1993 (1993-06-15) columns 1,2,8 claims 15,16 example 1	35,43, 44,55,56
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

13 April 2005

Date of mailing of the international search report

26/04/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; SHIBAGAMI, MOTONARI ET AL: "Preparation of sphingolipids for pharmaceuticals and cosmetics" XP002323215 retrieved from STN Database accession no. 2004:17805 CAS RN: 641628-10-6; 641628-11-7 abstract -& JP 2004 002215 A (NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY, JAPA) 8 January 2004 (2004-01-08) pages 5,13	35-44, 55,56
X	----- DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; TAMAI, TADAKAZU ET AL: "Preparation of amino alcohol phosphates and their use as Edg (endothelial differentiation gene) receptor antagonists for treatment of diseases" XP002323216 retrieved from STN Database accession no. 2003:371676 CAS RN: 524730-19-6; 524730-19-6; 524730-22-1 abstract -& JP 2003 137894 A (NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY, JAPA) 14 May 2003 (2003-05-14) pages 2,5	30,54
X	----- WO 99/41266 A (EMORY UNIVERSITY; LIOTTA, DENNIS, C; MERRILL, ALFRED, H., JR; KEANE, T) 19 August 1999 (1999-08-19) examples 16a,16b,17a,17b	35,43,44
X	----- WO 95/21848 A (THE UNITED STATES OF AMERICA, REPRESENTED BY THE) 17 August 1995 (1995-08-17) page 7; example III claim 22	30,54
X	----- WO 93/19760 A (THE BIOMEMBRANE INSTITUTE) 14 October 1993 (1993-10-14) figure 2; examples 1,5	54
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In International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>RAMSTEDT, BODIL ET AL: "Comparison of the biophysical properties of racemic and D-erythro-N-acyl sphingomyelins" BIOPHYSICAL JOURNAL , 77(3), 1498-1506 CODEN: BIOJAU; ISSN: 0006-3495, 1999, XP002323211 scheme 1 abstract</p>	43,44, 55,56
X	<p>KRATZER, BERND ET AL: "Efficient synthesis of sphingosine 1-phosphate, ceramide 1-phosphate, lysosphingomyelin, and sphingomyelin" LIEBIGS ANNALEN , (6), 957-63 CODEN: LANAEM; ISSN: 0947-3440, 1995, XP002323212 scheme 1: examples 1, 2, 4 scheme 3: examples 13, 15 scheme 4: examples 1, 4, 19, 21</p>	30,35, 43,44,54
X	<p>ZANGLIS, ANTHONY ET AL: "The biological activity of acetylated sphingosylphosphorylcholine derivatives" INTERNATIONAL JOURNAL OF BIOCHEMISTRY & CELL BIOLOGY , 28(1), 63-74 CODEN: IJBBFU; ISSN: 1357-2725, 1996, XP002323213 figure 1; examples I,II,III</p>	35,43,45
X	<p>HANS-PETER DEIGNER AND BEATRIX FYRNYS: "Rapid synthesis of 2-desoxy-2-amino-3-phosphocholine-glycerinic-acid-alkylester, 1-alkyl-1-desoxy- and 1-o-alkyl-2-desoxy-2-amino-sn-glycero-3-phosphocholines, -3-phospho-N,N'-dimethylethanolamine and -3-phospho-Fmoc-serine-methylester" CHEMISTRY AND PHYSICS OF LIPIDS, vol. 61, 1992, pages 199-208, XP002323214 pages 205-206; figures 1-3</p>	1-29, 31-34, 36-42, 45-53
X	<p>H.P. DEIGNER AND B. FYRNYS: "Synthesis of ³²P!-labelled 1-O-alkyl-2-desoxy-2-amino-sn-glycero-3-phosphocholines" JOURNAL OF LABELLED COMPOUNDS AND RADIOPHARMCEUTICALS, vol. 34, no. 2, 1994, pages 185-190, XP008045160 page 186</p>	1-29, 31-34, 36-42, 45-53

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	C.M. THOMPSON ET AL: "Synthesis, Configuration, and Chemical Shift Correlation of Chiral 1,3,2-Oxazaphospholidin-2-ones Derived from L-Serine" JOURNAL OF ORGANIC CHEMISTRY, vol. 55, 1990, pages 111-116, XP002323263 scheme 1	15-20, 23-29, 31-34, 36-42, 45-53
X	ZHENG-JIE HE ET AL: "Synthesis of novel optically active cyclic phospholipid conjugates of tegafur and uridine starting from L-serine" PHOSPHORUS, SULFUR AND SILICON, vol. 160, 2000, pages 223-232, XP008045147 page 225	15-20, 23-29, 31-34, 36-42, 45-53

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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WO 9521848	A	17-08-1995	US 5430169 A AU 1874295 A WO 9521848 A1	04-07-1995 29-08-1995 17-08-1995
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